

$\chi_{b2}(1P)$

$I^G(JPC) = 0^+(2^{++})$
 J needs confirmation.

Observed in radiative decay of the $\Upsilon(2S)$, therefore $C = +$. Branching ratio requires E1 transition, M1 is strongly disfavored, therefore $P = +$. $J = 2$ from SKWARNICKI 87.

$\chi_{b2}(1P)$ MASS

VALUE (MeV)	DOCUMENT ID	COMMENT
9912.21±0.26±0.31 OUR EVALUATION	From average γ energy below, using $\Upsilon(2S)$ mass = 10023.26 ± 0.31 MeV	

γ ENERGY IN $\Upsilon(2S)$ DECAY

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
110.44±0.29 OUR AVERAGE	Error includes scale factor of 1.1.		
110.58±0.08±0.30	ARTUSO 05	CLEO	$\Upsilon(2S) \rightarrow \gamma X$
110.8 ± 0.3 ± 0.6	EDWARDS 99	CLE2	$\Upsilon(2S) \rightarrow \gamma\chi(1P)$
107.0 ± 1.1 ± 1.3	WALK 86	CBAL	$\Upsilon(2S) \rightarrow \gamma\gamma\ell^+\ell^-$
110.6 ± 0.3 ± 0.9	ALBRECHT 85E	ARG	$\Upsilon(2S) \rightarrow \text{conv.}\gamma X$
110.4 ± 0.8 ± 2.2	NERNST 85	CBAL	$\Upsilon(2S) \rightarrow \gamma X$
109.5 ± 0.7 ± 1.0	HAAS 84	CLEO	$\Upsilon(2S) \rightarrow \text{conv.}\gamma X$
108.2 ± 0.3 ± 2.0	KLOPFEN...	CUSB	$\Upsilon(2S) \rightarrow \gamma X$
108.8 ± 4.0	PAUSS 83	CUSB	$\Upsilon(2S) \rightarrow \gamma\gamma\ell^+\ell^-$

$\chi_{b2}(1P)$ DECAY MODES

Mode	Fraction (Γ_i/Γ)	Confidence level
$\Gamma_1 \gamma \Upsilon(1S)$	(19.1 ± 1.2) %	
$\Gamma_2 D^0 X$	< 7.9 %	90%
$\Gamma_3 \pi^+ \pi^- K^+ K^- \pi^0$	(8 ± 5) $\times 10^{-5}$	
$\Gamma_4 2\pi^+ \pi^- K^- K_S^0$	< 1.0 $\times 10^{-4}$	90%
$\Gamma_5 2\pi^+ \pi^- K^- K_S^0 2\pi^0$	(5.3 ± 2.4) $\times 10^{-4}$	
$\Gamma_6 2\pi^+ 2\pi^- 2\pi^0$	(3.5 ± 1.4) $\times 10^{-4}$	
$\Gamma_7 2\pi^+ 2\pi^- K^+ K^-$	(1.1 ± 0.4) $\times 10^{-4}$	
$\Gamma_8 2\pi^+ 2\pi^- K^+ K^- \pi^0$	(2.1 ± 0.9) $\times 10^{-4}$	
$\Gamma_9 2\pi^+ 2\pi^- K^+ K^- 2\pi^0$	(3.9 ± 1.8) $\times 10^{-4}$	
$\Gamma_{10} 3\pi^+ 2\pi^- K^- K_S^0 \pi^0$	< 5 $\times 10^{-4}$	90%
$\Gamma_{11} 3\pi^+ 3\pi^-$	(7.0 ± 3.1) $\times 10^{-5}$	
$\Gamma_{12} 3\pi^+ 3\pi^- 2\pi^0$	(1.0 ± 0.4) $\times 10^{-3}$	
$\Gamma_{13} 3\pi^+ 3\pi^- K^+ K^-$	< 8 $\times 10^{-5}$	90%
$\Gamma_{14} 3\pi^+ 3\pi^- K^+ K^- \pi^0$	(3.6 ± 1.5) $\times 10^{-4}$	
$\Gamma_{15} 4\pi^+ 4\pi^-$	(8 ± 4) $\times 10^{-5}$	
$\Gamma_{16} 4\pi^+ 4\pi^- 2\pi^0$	(1.8 ± 0.7) $\times 10^{-3}$	

$\chi_{b2}(1P)$ BRANCHING RATIOS

VALUE	EVTS	DOCUMENT ID	TECN	COMMENT	Γ_1/Γ
0.191±0.012 OUR AVERAGE					
0.186±0.011±0.009	1770	1,2 KORNICER	11	CLEO $e^+ e^- \rightarrow \gamma\gamma\ell^+\ell^-$	
0.194 ^{+0.014} _{-0.017} ±0.009	8k	³ LEES	11J	BABR $\Upsilon(2S) \rightarrow X\gamma$	
0.27 ± 0.06 ± 0.06		WALK	86	CBAL $\Upsilon(2S) \rightarrow \gamma\gamma\ell^+\ell^-$	
0.20 ± 0.05		KLOPFEN...	83	CUSB $\Upsilon(2S) \rightarrow \gamma\gamma\ell^+\ell^-$	

¹ Assuming $B(\Upsilon(1S) \rightarrow \ell^+\ell^-) = (2.48 \pm 0.05)\%$.

² KORNICER 11 reports $[\Gamma(\chi_{b2}(1P) \rightarrow \gamma \Upsilon(1S))/\Gamma_{\text{total}}] \times [B(\Upsilon(2S) \rightarrow \gamma\chi_{b2}(1P))] = (1.33 \pm 0.04 \pm 0.07) \times 10^{-2}$ which we divide by our best value $B(\Upsilon(2S) \rightarrow \gamma\chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

³ LEES 11 reports $[\Gamma(\chi_{b2}(1P) \rightarrow \gamma \Upsilon(1S))/\Gamma_{\text{total}}] \times [B(\Upsilon(2S) \rightarrow \gamma\chi_{b2}(1P))] = (13.9 \pm 0.5^{+0.9}_{-1.1}) \times 10^{-3}$ which we divide by our best value $B(\Upsilon(2S) \rightarrow \gamma\chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

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$\Gamma(D^0 X)/\Gamma_{\text{total}}$	Γ_2/Γ			
$\text{VALUE} \quad \text{CL\%}$ $<7.9 \times 10^{-2}$ 90	DOCUMENT ID 4,5 BRIERE	TECN 08 CLEO	COMMENT $\gamma(2S) \rightarrow \gamma D^0 X$	

⁴ For $p_{D^0} > 2.5 \text{ GeV}/c$.

⁵ The authors also present their result as $(5.4 \pm 1.9 \pm 0.5) \times 10^{-2}$.

$\Gamma(\pi^+ \pi^- K^+ K^- \pi^0)/\Gamma_{\text{total}}$	Γ_3/Γ			
$\text{VALUE (units } 10^{-4})$ $0.84 \pm 0.50 \pm 0.04$ 8	EVTS 6 ASNER	DOCUMENT ID 08A	TECN CLEO	COMMENT $\gamma(2S) \rightarrow \gamma \pi^+ \pi^- K^+ K^- \pi^0$

⁶ ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow \pi^+ \pi^- K^+ K^- \pi^0)/\Gamma_{\text{total}}] \times [B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (6 \pm 3 \pm 2) \times 10^{-6}$ which we divide by our best value $B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

$\Gamma(2\pi^+ \pi^- K^- K_S^0)/\Gamma_{\text{total}}$	Γ_4/Γ			
$\text{VALUE (units } 10^{-4})$ <1.0 90	CL\% 7 ASNER	DOCUMENT ID 08A	TECN CLEO	COMMENT $\gamma(2S) \rightarrow \gamma 2\pi^+ \pi^- K^- K_S^0$

⁷ ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 2\pi^+ \pi^- K^- K_S^0)/\Gamma_{\text{total}}] \times [B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] < 7 \times 10^{-6}$ which we divide by our best value $B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = 7.15 \times 10^{-2}$.

$\Gamma(2\pi^+ \pi^- K^- K_S^0 2\pi^0)/\Gamma_{\text{total}}$	Γ_5/Γ			
$\text{VALUE (units } 10^{-4})$ $5.3 \pm 2.4 \pm 0.3$ 11	EVTS 8 ASNER	DOCUMENT ID 08A	TECN CLEO	COMMENT $\gamma(2S) \rightarrow \gamma 2\pi^+ \pi^- K^- 2\pi^0$

⁸ ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 2\pi^+ \pi^- K^- K_S^0 2\pi^0)/\Gamma_{\text{total}}] \times [B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (38 \pm 14 \pm 10) \times 10^{-6}$ which we divide by our best value $B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

$\Gamma(2\pi^+ 2\pi^- 2\pi^0)/\Gamma_{\text{total}}$	Γ_6/Γ			
$\text{VALUE (units } 10^{-4})$ $3.5 \pm 1.4 \pm 0.2$ 19	EVTS 9 ASNER	DOCUMENT ID 08A	TECN CLEO	COMMENT $\gamma(2S) \rightarrow \gamma 2\pi^+ 2\pi^- 2\pi^0$

⁹ ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 2\pi^+ 2\pi^- 2\pi^0)/\Gamma_{\text{total}}] \times [B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (25 \pm 8 \pm 6) \times 10^{-6}$ which we divide by our best value $B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

$\Gamma(2\pi^+ 2\pi^- K^+ K^-)/\Gamma_{\text{total}}$	Γ_7/Γ			
$\text{VALUE (units } 10^{-4})$ $1.1 \pm 0.4 \pm 0.1$ 14	EVTS 10 ASNER	DOCUMENT ID 08A	TECN CLEO	COMMENT $\gamma(2S) \rightarrow \gamma 2\pi^+ 2\pi^- K^+ K^-$

¹⁰ ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 2\pi^+ 2\pi^- K^+ K^-)/\Gamma_{\text{total}}] \times [B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (8 \pm 2 \pm 2) \times 10^{-6}$ which we divide by our best value $B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

$\Gamma(2\pi^+ 2\pi^- K^+ K^- \pi^0)/\Gamma_{\text{total}}$	Γ_8/Γ			
$\text{VALUE (units } 10^{-4})$ $2.1 \pm 0.9 \pm 0.1$ 13	EVTS 11 ASNER	DOCUMENT ID 08A	TECN CLEO	COMMENT $\gamma(2S) \rightarrow \gamma 2\pi^+ 2\pi^- K^+ K^- \pi^0$

¹¹ ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 2\pi^+ 2\pi^- K^+ K^- \pi^0)/\Gamma_{\text{total}}] \times [B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (15 \pm 5 \pm 4) \times 10^{-6}$ which we divide by our best value $B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

$\Gamma(2\pi^+ 2\pi^- K^+ K^- 2\pi^0)/\Gamma_{\text{total}}$	Γ_9/Γ			
$\text{VALUE (units } 10^{-4})$ $3.9 \pm 1.8 \pm 0.2$ 11	EVTS 12 ASNER	DOCUMENT ID 08A	TECN CLEO	COMMENT $\gamma(2S) \rightarrow \gamma 2\pi^+ 2\pi^- K^+ K^- 2\pi^0$

¹² ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 2\pi^+ 2\pi^- K^+ K^- 2\pi^0)/\Gamma_{\text{total}}] \times [B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (28 \pm 11 \pm 7) \times 10^{-6}$ which we divide by our best value $B(\gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.

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$\Gamma(3\pi^+ 2\pi^- K^- K_S^0 \pi^0)/\Gamma_{\text{total}}$					Γ_{10}/Γ
VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT	
<5	90	13 ASNER	08A CLEO	$\Gamma(2S) \rightarrow \gamma 3\pi^+ 2\pi^- K^- K_S^0 \pi^0$	
13 ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 3\pi^+ 2\pi^- K^- K_S^0 \pi^0)/\Gamma_{\text{total}}] \times [B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] < 36 \times 10^{-6}$ which we divide by our best value $B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = 7.15 \times 10^{-2}$.					
$\Gamma(3\pi^+ 3\pi^-)/\Gamma_{\text{total}}$					Γ_{11}/Γ
VALUE (units 10^{-4})	EVTS	DOCUMENT ID	TECN	COMMENT	
0.70±0.31±0.03	9	14 ASNER	08A CLEO	$\Gamma(2S) \rightarrow \gamma 3\pi^+ 3\pi^-$	
14 ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 3\pi^+ 3\pi^-)/\Gamma_{\text{total}}] \times [B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (5 \pm 2 \pm 1) \times 10^{-6}$ which we divide by our best value $B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.					
$\Gamma(3\pi^+ 3\pi^- 2\pi^0)/\Gamma_{\text{total}}$					Γ_{12}/Γ
VALUE (units 10^{-4})	EVTS	DOCUMENT ID	TECN	COMMENT	
10.2±3.6±0.5	34	15 ASNER	08A CLEO	$\Gamma(2S) \rightarrow \gamma 3\pi^+ 3\pi^- 2\pi^0$	
15 ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 3\pi^+ 3\pi^- 2\pi^0)/\Gamma_{\text{total}}] \times [B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (73 \pm 16 \pm 20) \times 10^{-6}$ which we divide by our best value $B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.					
$\Gamma(3\pi^+ 3\pi^- K^+ K^-)/\Gamma_{\text{total}}$					Γ_{13}/Γ
VALUE (units 10^{-4})	CL%	DOCUMENT ID	TECN	COMMENT	
<0.8	90	16 ASNER	08A CLEO	$\Gamma(2S) \rightarrow \gamma 3\pi^+ 3\pi^- K^+ K^-$	
16 ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 3\pi^+ 3\pi^- K^+ K^-)/\Gamma_{\text{total}}] \times [B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] < 6 \times 10^{-6}$ which we divide by our best value $B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = 7.15 \times 10^{-2}$.					
$\Gamma(3\pi^+ 3\pi^- K^+ K^- \pi^0)/\Gamma_{\text{total}}$					Γ_{14}/Γ
VALUE (units 10^{-4})	EVTS	DOCUMENT ID	TECN	COMMENT	
3.6±1.5±0.2	14	17 ASNER	08A CLEO	$\Gamma(2S) \rightarrow \gamma 3\pi^+ 3\pi^- K^+ K^- \pi^0$	
17 ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 3\pi^+ 3\pi^- K^+ K^- \pi^0)/\Gamma_{\text{total}}] \times [B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (26 \pm 8 \pm 7) \times 10^{-6}$ which we divide by our best value $B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.					
$\Gamma(4\pi^+ 4\pi^-)/\Gamma_{\text{total}}$					Γ_{15}/Γ
VALUE (units 10^{-4})	EVTS	DOCUMENT ID	TECN	COMMENT	
0.84±0.40±0.04	7	18 ASNER	08A CLEO	$\Gamma(2S) \rightarrow \gamma 4\pi^+ 4\pi^-$	
18 ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 4\pi^+ 4\pi^-)/\Gamma_{\text{total}}] \times [B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (6 \pm 2 \pm 2) \times 10^{-6}$ which we divide by our best value $B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.					
$\Gamma(4\pi^+ 4\pi^- 2\pi^0)/\Gamma_{\text{total}}$					Γ_{16}/Γ
VALUE (units 10^{-4})	EVTS	DOCUMENT ID	TECN	COMMENT	
18±7±1	29	19 ASNER	08A CLEO	$\Gamma(2S) \rightarrow \gamma 4\pi^+ 4\pi^- 2\pi^0$	
19 ASNER 08A reports $[\Gamma(\chi_{b2}(1P) \rightarrow 4\pi^+ 4\pi^- 2\pi^0)/\Gamma_{\text{total}}] \times [B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))] = (132 \pm 31 \pm 40) \times 10^{-6}$ which we divide by our best value $B(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P)) = (7.15 \pm 0.35) \times 10^{-2}$. Our first error is their experiment's error and our second error is the systematic error from using our best value.					

$\chi_{b2}(1P)$ Cross-Particle Branching Ratios

$\Gamma(\chi_{b2}(1P) \rightarrow \gamma \Gamma(1S))/\Gamma_{\text{total}} \times \Gamma(\Gamma(2S) \rightarrow \gamma \chi_{b2}(1P))/\Gamma_{\text{total}}$	$\Gamma_1/\Gamma \times \Gamma_{15}^{2\pi}/\Gamma^{2\pi}$			
VALUE (units 10^{-3})	EVTS	DOCUMENT ID	TECN	COMMENT
13.9±0.5±0.9	8k	LEES	11J BABR	$\Gamma(2S) \rightarrow X \gamma$

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$$\mathcal{B}(\chi_{b2}(1P) \rightarrow \gamma \Upsilon(1S)) \times \mathcal{B}(\Upsilon(2S) \rightarrow \gamma \chi_{b2}(1P)) \times \mathcal{B}(\Upsilon(1S) \rightarrow \ell^+ \ell^-)$$

VALUE (units 10^{-4})	EVTS	DOCUMENT ID	TECN	COMMENT
3.29±0.09±0.16	1770	KORNICER	11	CLEO $e^+ e^- \rightarrow \gamma\gamma\ell^+\ell^-$

$$\mathcal{B}(\chi_{b2}(1P) \rightarrow \gamma \Upsilon(1S)) \times \mathcal{B}(\Upsilon(3S) \rightarrow \gamma \chi_{b2}(1P)) \times \mathcal{B}(\Upsilon(1S) \rightarrow \ell^+ \ell^-)$$

VALUE (units 10^{-5})	EVTS	DOCUMENT ID	TECN	COMMENT
3.56±0.40±0.41	126	KORNICER	11	CLEO $e^+ e^- \rightarrow \gamma\gamma\ell^+\ell^-$

$\chi_{b2}(1P)$ REFERENCES

KORNICER	11	PR D83 054003	M. Kornicer <i>et al.</i>	(CLEO Collab.)
LEES	11J	PR D84 072002	J.P. Lees <i>et al.</i>	(BABAR Collab.)
ASNER	08A	PR D78 091103	D.M. Asner <i>et al.</i>	(CLEO Collab.)
BRIERE	08	PR D78 092007	R.A. Briere <i>et al.</i>	(CLEO Collab.)
ARTUSO	05	PRL 94 032001	M. Artuso <i>et al.</i>	(CLEO Collab.)
EDWARDS	99	PR D59 032003	K.W. Edwards <i>et al.</i>	(CLEO Collab.)
SKWARNICKI	87	PRL 58 972	T. Skwarnicki <i>et al.</i>	(Crystal Ball Collab.) J
WALK	86	PR D34 2611	W.S. Walk <i>et al.</i>	(Crystal Ball Collab.)
ALBRECHT	85E	PL 160B 331	H. Albrecht <i>et al.</i>	(ARGUS Collab.)
NERNST	85	PRL 54 2195	R. Nernst <i>et al.</i>	(Crystal Ball Collab.)
HAAS	84	PRL 52 799	J. Haas <i>et al.</i>	(CLEO Collab.)
KLOPFEN...	83	PRL 51 160	C. Klopfenstein <i>et al.</i>	(CUSB Collab.)
PAUSS	83	PL 130B 439	F. Pauss <i>et al.</i>	(MPIM, COLU, CORN, LSU+)

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